USER GUIDE

invitrogen™
by life technologies™

Vector NTI® *Express* Designer Installation and Licensing Guide

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life technologies™

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Release Notes for Version 1.0

Open Issues in Version 1.0

Part Assembly - Failure to import the GenBank file of the final construct molecule into the Vector NTI® *Express* Designer Software application

Issue: The exported GenBank file for molecules created using vector pSB1A3 from the Assembly Compatibility tool cannot be re-imported back into the Vector NTI® *Express* Designer Software.
Workaround: Open the exported Genbank file using text editor, go to the Feature section, and change "**Misc. Feature**" to "**misc_feature**" before importing into Vector NTI® *Express* Designer Software.

Incorrect status shown on re-running a completed RBS Analysis job

Issue: In the RBS Analysis tool, if the user opens a completed job and re-runs the analysis, the original job will show a 'Running' status if you double click this job.
Workaround: When the second job is completed, the status of the original job will revert to the correct status of 'Completed'.

Multiple parts with a name containing special characters do not get permuted correctly

Issue: Since Auto Design does not accept special characters in a Part name, the Auto Design tool drops the special characters and includes only the alpha-numeric characters in the Part name.
In case of multiple Parts having special and alpha-numeric characters in the Part name, in Auto Design, when the special characters are excluded, one or more Parts could include the same alpha-numeric characters in the exact same sequence as one another, and therefore only one Part will be included.
Workaround: Do not include special characters in the Part names.

Software becomes unresponsive on generating a Dot Plot for a large sequence

Issue: The Vector NTI® *Express* Designer Software becomes unresponsive when performing **RNA Analysis > Generate Dot Plot function** for a large sequence.
Workaround: Refrain from performing this function if the sequence is larger than 1500 bp.

Duplicate warning messages appear when invoking Assembly Compatibility Tool

Issue: On some occasions, duplicate warning messages appear within the Compatibility Check Errors / Warnings table while performing cloning using either the Seamless/High Order (Liang, 2012), SLIC (Li, 2007), CPEC (Quan, 2009) and Exo/Fill In/Ligation (Gibson, 2009) assembly methods.
Workaround: The duplicate warning messages are the same. Clicking on either of the messages will bring up the dialog box for the correction action.

Same sequence is returned as the terminator sequence for very short sequences

Issue: The same sequence is being calculated as the terminator sequence when running the Terminator Calculator tool against very short sequences (<10 bps).
Workaround: Open up the RNA Structure tool, and manually check the secondary structure to examine the terminator sequence.

An additional warning message for checking non-adjacent homologous sequence appears in the Compatibility Check Errors table.

Issue: Duplicate warning messages appear within the Compatibility Check Errors table while checking non-adjacent homologous sequences.

Workaround: The duplicate warning messages are the same. Clicking on either of the messages will bring up the dialog box for the correction action.

Incorrect highlighting of the Type II RE cloning Sequence

Issue: Type II RE cloning Sequence is highlighted incorrectly on the selected cut restriction site overhang feature on Vector Selection dialog.
Workaround: The correct Overhang sequence of the feature is displayed in the area under the Sequence Viewer pane in the Prepare Vector dialog box. The correctly highlighted feature can also be viewed in the Preview Results dialog box for the vector backbone after assembly.

The default assembly name is not set correctly by the software

Issue: In the Seamless/High Order (Liang, 2012) and Golden Gate (Engler, 2011) assembly tools, if the Configure dialog is invoked multiple times, and parts are added to the device being configured during the invokes, on some occasions the default value in the Name field in the Configure dialog does not display the correct parts that have been selected.
Workaround: Ensure that you always double-check the Name before performing the cloning.

Sequences for features in the complementary strand are not highlighted in the Assembly Compatibility tool

Issue: In the Assembly Compatibility tool, in the Vector Selection dialog box, if the user clicks on a feature in the complementary strand, the feature is not highlighted in the Sequence Viewer pane.
Workaround: Manually highlight the sequence using the start and end position shown in the tooltip in Graphic pane.

The Part category field is defaulted to blank upon re-importing an exported Device

Issue: The Part Category of an exported Part is not shown as the default value in the Import dialog box if this part is re-imported to the Vector NTI® *Express* Designer Software after the Device containing that Part is exported.
Workaround: Always check the Part Category when importing a Part back into the software.

Dot Plot is sometimes hidden behind the RNA Analysis dialog box

Issue: Sometimes the Dot Plot dialog box is hidden behind the RNA Analysis dialog box and can be invisible to the user.
Workaround: Press **Alt + Tab** to bring up the Dot Plot dialog box.

RBS Analysis and RBS Design dialog boxes cannot be maximized

Issue: The RBS Calculator dialog boxes cannot be resized thereby making it difficult to examine the results.
Workaround: Click the Export Report button to export the results to Microsoft® Excel®, and examine the results from there.

System cannot refresh the Organism list (in Mac versions only)

Issue: In the RBS Calculator Analysis tool, when the user types only three letters in the Organism field, the drop-down list does not refresh. This happens only in the Macintosh® version of the Vector NTI® *Express* Designer Software.
Workaround: Click in the drop-down list manually after keying in the 3 letters; the list will get refreshed.

Failure to restore the database when the database location is not the default location

Issue: If a user selects a database from another location instead of the default location (For example, C:\VntiExpressDesigner_Database), database restoration will not function..
Workaround: Ensure that the default database is selected before performing database restoration.

The default vector pACYC177 is not available in the Vector Subset

Issue: If a user selects a different vector in the Vector Prepare dialog box and tries to re-use the default vector, the user is unable to do that as the vector is then not available in the Vector List.
Workaround: Copy the Vector, pACYC177, into Vector Subset manually.

Software is unresponsive while performing Auto Design with multiple unlocked parts

Issue: If a user unlocks many parts to perform Auto Design, the software will be unresponsive and no result will be generated.
Workaround: Unlock lesser parts to perform Auto Design.

Unable to perform GeneArt Web Optimization and submission of GeneArt projects without restarting of application after a user has changed the Internet Setting in the Preferences

Issue: If a user changes the Internet setting and performs GeneArt Web Optimization or submission of GeneArt projects, the software will prompt an error, "**Failed to connect to the GeneArt server**".
Workaround: Re-launch the application after any change is made to the Internet Settings for the settings to take effect.

Unable to add characterization data in Part/Device/Circuit when there is no attachment added

Issue: User is unable to add characterization data in a Part/Device/Circuit in the Designer Canvas when there is no attachment being added.
Workaround: Add an attachment when adding characterization data in a Part/Device/Circuit in the Designer Canvas.

Unable to add Part rule to the Source_Organism property

Issue: System shows the error, "Invalid input" while adding a Part rule to the Source_Organism property.
Workaround: Perform the following:

1. In the Information Pane, go to the Properties tab and within Classification, select a Group/Class for Source_Organism.
2. Under the Rules/Auto Design tab, select another property that has a drop-down option list for its values; for example, Host_Organism. Click **Add Rule**.
3. Now you can select the property, Source_Organism to add as a Part Rule.

System settings and requirements

Minimum system requirements

Platform	Hardware			Software	
	CPU	RAM	Hard drive	OS	Internet Browser
Windows®	Intel Core 2 Duo 2.33GHz	1 GB	80 GB	XP SP3 (32bit)	IE 6
Macintosh®	Intel Core i7 2GHz	4 GB	500 GB	Snow Leopard	Safari

Note: Vector NTI® *Express* Designer is only supported on single processor machines. The software is not designed to run on multi-processor machines; such configurations cannot be guaranteed to operate successfully.

Windows® operating systems only: Local administrator account

On the Windows® operating system, you must be logged in as a local administrator to install the software.

Dynamic licensing

This document does not address Dynamic Licensing of Vector NTI® *Express* Designer or DLS installation. Customers with a DLS License should first install and license the DLS software before installing Vector NTI® *Express* Designer.

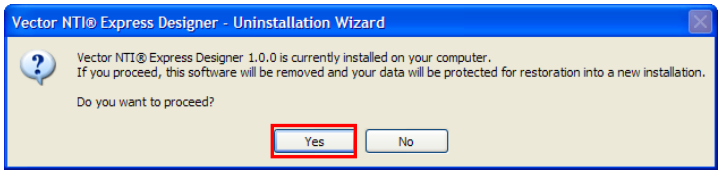
For information on DLS installation and dynamic licensing of Vector NTI® *Express* Designer, see the **DLS Installation and Licensing Guide**, available by following the link to Vector NTI® *Express* Designer on **http://lifetechnologies.com/vectornti**.

Download the software

1. To download the software, go to **http://lifetechnologies.com/vectornti** and follow the links to the Vector NTI® *Express* Designer download page.
2. Follow the instructions on the page to download the software.
3. When the download is complete, depending on your browser settings, you will be prompted to save or run the installer.

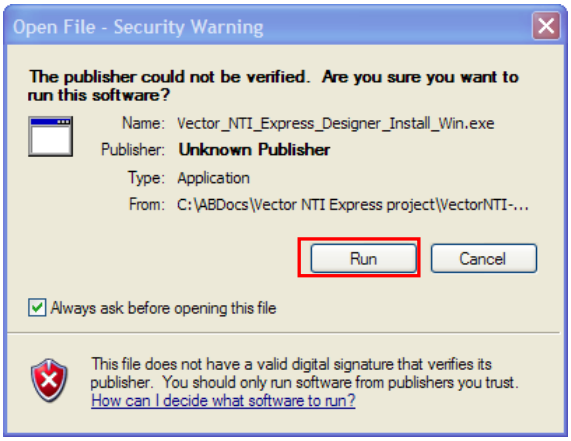
Install the software

1. If you are not prompted to automatically run the installer after download, navigate to the download location and double-click on the installer (e.g., **Vector_NTI_Express_Designer_Install_Win.exe**) to begin installation.
2. The installation files will be extracted. If a previous version of Vector NTI® *Express* Designer is installed, you will be prompted to uninstall it before proceeding.

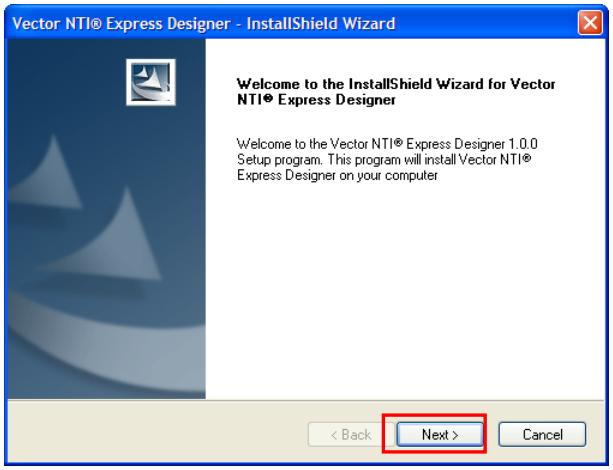

Vector NTI® Express Designer - Uninstallation Wizard
Vector NTI® Express Designer 1.0.0 is currently installed on your computer.
If you proceed, this software will be removed and your data will be protected for restoration into a new installation.
Do you want to proceed?
Yes
No

Note: During uninstall, you will be prompted to save your old database. After uninstall is complete, double-click on the installer again to begin the installation.

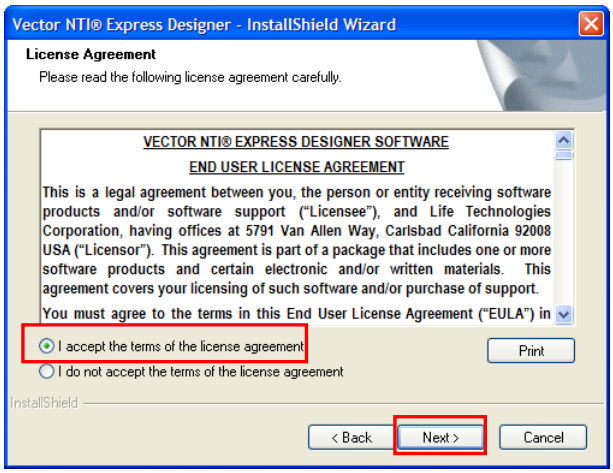
3. If prompted with a security warning, press **Run** to proceed.


Open File - Security Warning
The publisher could not be verified. Are you sure you want to run this software?
Name: Vector_NTI_Express_Designer_Install_Win.exe
Publisher: Unknown Publisher
Type: Application
From: C:\ABDocs\Vector NTI Express project\VectorNTI-...
Run
Cancel
Always ask before opening this file
This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust.
How can I decide what software to run?

4. In the next screen, click on **Next**.

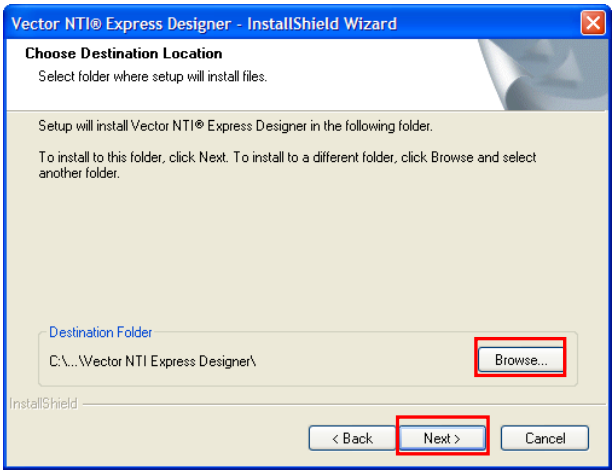

Vector NTI® Express Designer - InstallShield Wizard
Welcome to the InstallShield Wizard for Vector NTI® Express Designer
Welcome to the Vector NTI® Express Designer 1.0.0 Setup program. This program will install Vector NTI® Express Designer on your computer
< Back
Next >
Cancel

5. In the next screen, accept the license agreement and click **Next**.

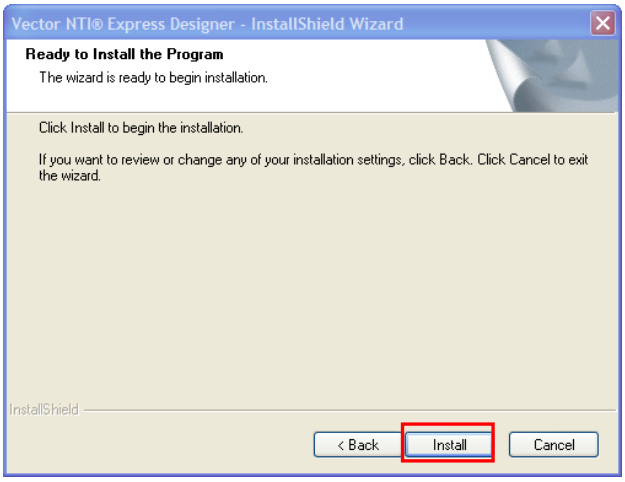

Vector NTI® Express Designer - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
VECTOR NTI® EXPRESS DESIGNER SOFTWARE
END USER LICENSE AGREEMENT
This is a legal agreement between you, the person or entity receiving software products and/or software support ("Licensee"), and Life Technologies Corporation, having offices at 5791 Van Allen Way, Carlsbad California 92008 USA ("Licensor"). This agreement is part of a package that includes one or more software products and certain electronic and/or written materials. This agreement covers your licensing of such software and/or purchase of support.
You must agree to the terms in this End User License Agreement ("EULA") in
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

6. In the next screen, click on **Next** to accept the default install directory, or **Browse** to select a different one.

   Note: We recommend installing Vector NTI® *Express* Designer on a computer hard drive, not a network drive.


Vector NTI® Express Designer - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Setup will install Vector NTI® Express Designer in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\...\Vector NTI Express Designer\
Browse...
InstallShield
< Back
Next >
Cancel

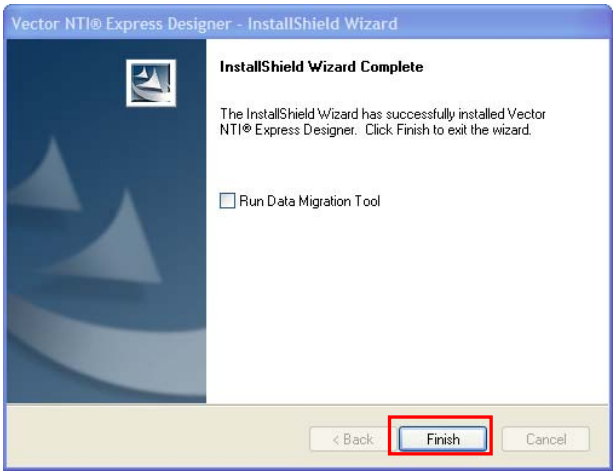
7. In the next screen, click on **Install**.


Vector NTI® Express Designer - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

8. During installation, a local Vector NTI® *Express* Designer database is created. This database initially contains a set of standard vectors and other molecules from Life Technologies.

9. When installation is complete, select the **Run Data Migration Tool** checkbox to import your data from the Vector NTI® *Express* database into Vector NTI® *Express* Designer.

   Note: The Data Migration Tool may take several minutes to import your data. You can also import your data later from within Vector NTI® *Express* Designer by selecting **File > Import.**


Vector NTI® Express Designer - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Vector NTI® Express Designer. Click Finish to exit the wizard.
Run Data Migration Tool
< Back
Finish
Cancel

Launch the software

Windows® operating systems: A desktop icon and Start menu folder will be created during installation. Double-click on the icon or select the application from the Start menu to launch the software.

Mac® OS: To launch the software, go to **/Applications/VectorNTIExpressDesigner.app**.

License the software

New installations of Vector NTI® *Express* Designer will open in **Demo Mode**, which allows you to perform limited operations with the software. You cannot save changes or analysis results in Demo Mode.

Order a license

You can order a license for Vector NTI® *Express* Designer on our website at **www.lifetechnologies.com/vectornti.** Follow the links to the Vector NTI® *Express* Designer pricing page.

For a free trail license, click on the link on the Vector NTI® *Express* Designer page, or email your contact information to **bioinfotrial@lifetech.com**.

Types of licenses

To satisfy the needs of users in different industrial, scientific or educational environments, Life Technologies has designed the following Vector NTI® *Express* Designer licenses:

Trial License: Allotted to a potential purchaser of Vector NTI® *Express* Designer for a specified number of days, during which the user can review and use the software within certain limits.

Static License: Purchased by one user for installation on one computer.

Corporate Static License: Static license that is used throughout a corporate organization.

Term License: Static Licenses are also available as 1-year and 3-year fixed-term licenses.

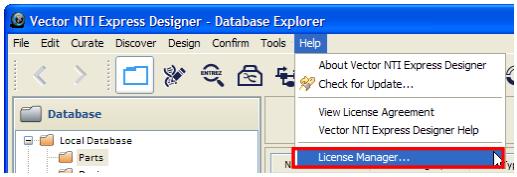
Dynamic License (DLS): A license that is installed on a server and issued by that server to client computers running Vector NTI® *Express* Designer software. DLS licenses are shared by a specified number of users or "seats," with the number of users at any one time being limited to the number of "licenses" specified in the contract.

Enter the license number

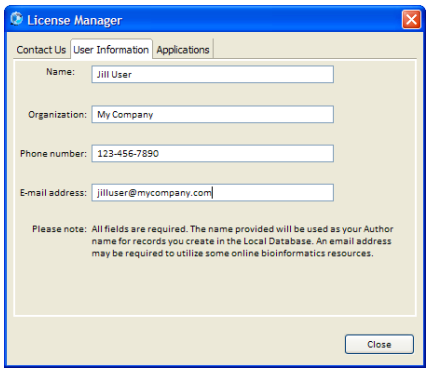
Note: To license Vector NTI® *Express* Designer, you need a new License Number. If you have no connection to the internet, you also need a new Registration Key. The Registration Key is provided by Life Technologies based on your License number and Hardware ID.

After you receive a license from Life Technologies, you can enter it into Vector NTI® *Express* Designer using the License Manager:

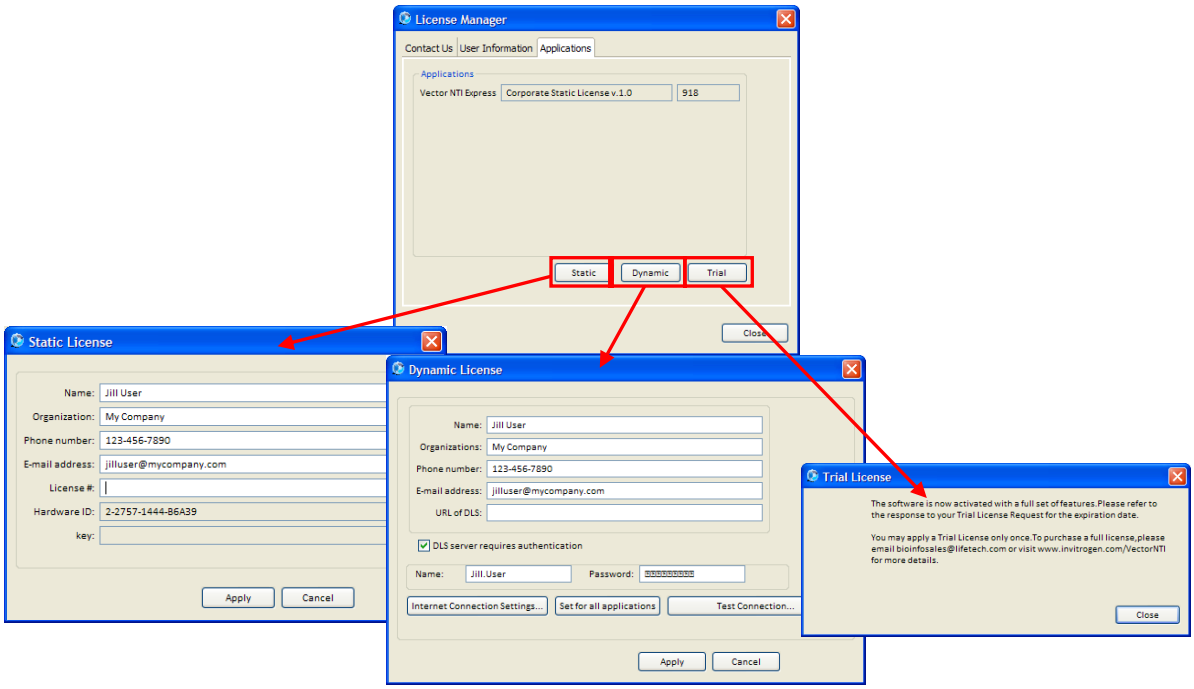
1. Go to **Help > License Manager**.



2. In License Manager, click on the **User Information** tab and enter your information.


License Manager
Contact Us
User Information
Applications
Name: Jill User
Organization: My Company
Phone number: 123-456-7890
E-mail address: jilluser@mycompany.com
Please note: All fields are required. The name provided will be used as your Author name for records you create in the Local Database. An email address may be required to utilize some online bioinformatics resources.
Close

3. Click on the **Applications** tab. Your current license is displayed along with the contract number.



4. In the **Applications** tab, click on the button for the type of license you have and enter the license information as described in the following sections.

   Note: After you enter the new license, you will need to close and restart Vector NTI® *Express* Designer to apply the new license to it.

Static License

To enter a Static License:

1. In the Applications tab, click the **Static** button.
2. Enter your information in the appropriate fields.
3. In the **License #** field, enter the Vector NTI® *Express* Designer static license number provided in the email you received from Life Technologies. The hardware ID is pre-loaded in its text box.
4. **Personal Static License:** You must have an internet connection for this type of static license. Click the **Apply** button. The license is submitted via the internet and a registration key is returned and applied automatically.

   Corporate Static License: You must have an internet connection for this type of static license. Click the **Apply** button. The license is submitted via the internet and a registration key is returned and applied automatically.

   If registration of your personal static license fails because of a problem with the internet connection, contact Life Technologies Technical Support and provide them with your computer's hardware ID and your license number. Once you receive the registration key, enter the key in the **Key** text box of the Static License dialog box and click **Apply**. If the Key matches your license number and computer hardware ID, the license is registered.

Trial License

To enter a Trial License:

1. In the Applications tab, click the **Trial** button.
2. Enter the trial license you received in the field, then click on **Apply**.

Dynamic License from a DLS Server

To configure a Dynamic License for Vector NTI® *Express* Designer, see the **Installation and Licensing Guide for Vector DLS 3.0** available at **www.lifetechnologies/vectornti**.

To enter a Dynamic License:

1. In the Applications tab, click the **Dynamic** button.
2. Enter your information in the appropriate fields.
3. Select the **DLS server requires authentication checkbox**, and enter your name and password for the server.
4. If you have trouble connecting to the server, click on the **Internet Connection Settings** button to try new connection settings, then click on **Test Connection** to test the settings.

Software Updates

Vector NTI® *Express* Designer has a software update server that can be checked automatically or manually:

1. Go to **Tools > Preferences**.
2. In the Preferences dialog, the update site URL is specified as follows:

For Windows:
http://downloads.lifetechnologies.com/Analysis_Software/MCB/VNTI/UpdateSitePlugin/Designer.Updates.win32/1.0

For Macintosh:
http://downloads.lifetechnologies.com/Analysis_Software/MCB/VNTI/UpdateSitePlugin/Designer.Updates.mac/1.0

3. To automatically check for updates each time the software is launched, select the **Automatically find new updates and notify me** checkbox. To manually check for updates, go to **Help > Check for Update** after you have launched the software.

Installing a previous version of the software

To go back to an older version of the software, you must first uninstall the newer version and then re-install the older version.

Windows® operating systems: Multiple users on the same computer

You can run Vector NTI® *Express* Designer from different user accounts on the same computer. (See your Windows® operating system documentation for information about setting up multiple user accounts.)

Note the following:

With this type of installation, a single local database is shared among users on the same computer.

An Administrator account is required to install the software, but more restricted accounts (e.g., Restricted User, Standard User) can run the software.

1. From an Administrator account, install Vector NTI® *Express* Designer on the computer.

Important Make sure that the local database is installed in an unrestricted root directory (e.g., the default **C:\vectorntiexpressdesigner_database** directory) that can be accessed by all users.

2. After installation, launch the software in the Administrator account, open License Manager (**Help > License Manager**), and enter the license as described in the licensing section of this installation guide (see page 10).
3. Log on to each user account and run the software as usual.

Transfer software to a new computer or operating system

The license number and Hardware ID of your computer are closely linked. Changes to the computer operating system can result in a change to the Hardware ID, which will revoke the existing license.

If the operating system changes or the software is to be moved to a different computer, you must unregister the license **before** the software is uninstalled from the current computer. To do so, type "**unregister**" in License# field, and press the **Apply** button. An internet connection is required.

On the destination computer, install the software, and apply the existing license.

Appendix A. Technical support

Technical resources on the web

Technical resources for Vector NTI® *Express* Designer Software are available online at: **http://lifetechnologies/vectornti**.

Annual support contract

For personalized technical support by telephone or email, you must have a paid annual software maintenance and support contract. To purchase an annual support contract, email **bioinfosales@lifetech.com** or contact Life Technologies customer support at **www.lifetechnologies.com/support.**

If you have a paid annual support contract, you can contact us by email or phone:

Email: **bioinfosupport@lifetech.com**

Phone:

- 800 955 6288 (North America)
- +44 (0) 141 814 6318 (Europe, Middle East, Africa)

Other Life Technologies technical support

For additional Life Technologies technical support, visit **www.lifetechnologies.com/support**.

Product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.lifetechnologies.com/termsandconditions**. If you have any questions, please contact Life Technologies at **www.lifetechnologies.com/support**.

Appendix B. Reinstallation policy

Effective January 1, 2012, depending on the status of the Advanced Support Contract you may or may not have with us, the service coverage is different:

1. If you *do* have a current, paid Advanced Support Contract with Life Technologies, then you are entitled to an unlimited number of license support incidents for your Vector NTI® *Express* Designer software license. However, if you *do not* have a current, paid Advanced Support Contract with Life Technologies, then you are only entitled to one courtesy (no charge) license support incident for your Vector NTI® *Express* Designer software license.
2. For Vector NTI® *Express* Designer version 1.0, if you do not have a current, paid Advanced Support Contract, Life Technologies grants a one-time only license support incident for the number of computers registered per your original purchase order. For example, if you purchased license(s) for 10 computers, you will be entitled to a one-time courtesy (no charge) reinstallation for up to 10 computers. After that, no more courtesy (no charge) reinstallations will be granted.
3. As we introduce new major version releases, only the most current and one prior version will be eligible for license support, regardless of the type of licensing (i.e., Static, Dynamic, Network). This is a standard industry practice.

To request Reinstallation Service, please visit our website and submit out a **Reinstallation Request Form**, available on the web at:

https://www.invitrogen.com/site/us/en/home/Products-and-Services/Applications/Cloning/vector-nti-software/vector-nti-advance-software/Support/Re-Install-Request-Form.html

A valid license number and hardware ID is required.

Appendix C. Vector NTI® *Express* Designer Software and Support Product License Agreement

VECTOR NTI® *EXPRESS* DESIGNER SOFTWARE

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22. SOFTWARE MAINTENANCE AND SUPPORT. Licensor offers certain software maintenance and technical support service programs documented in Licensor's then-current Support policies ("Support"). Subscription to Support shall be governed by this EULA and by the terms and conditions set forth in such policies. Licensor shall have no obligation to provide Support if (a) the Software is not used in accordance with the accompanying documentation or Authorized Scope; (b) the Software was modified by you; (c) you have not implemented all upgrades that would otherwise correct the problem; or (d) the problem is caused by your misuse, negligence or other cause within your control. Licensor may change its Support policies and prices at any time. Licensor reserves the right to discontinue Support services for any Software where Licensor generally discontinues such services to all Licensees of such Software, in which case such discontinuation shall not automatically terminate this EULA and the License. If you terminate Support and then re-enroll, Licensor may charge you a reinstatement fee.

23. GENERAL. This EULA, including any Orders, Support policies, and associated Licensor invoices (all of which are incorporated herein), are collectively the parties' complete agreement regarding its subject matter, superseding any prior oral or written communications, representations or agreements. In the event that any prior oral or written communication is in direct conflict with the terms of this EULA, this EULA shall control. You understand and agree that, to the extent Licensor permits you to use a non-Licensor purchase order or other form to order Software and/or Support, Licensor does so solely for your convenience. Any terms in any such forms that purport to vary or are in addition to or inconsistent with any terms in this EULA or in the applicable Order shall be deemed to be void and of no effect. Amendments or changes to this EULA must be in mutually executed writings to be effective. Sections 1, 4, 5, and 8 through 23, inclusive, shall survive the termination or expiration of this EULA. The parties are independent contractors for all purposes under this EULA. Neither party shall be liable for any delay or failure due to force majeure and other causes beyond its reasonable control; provided that the foregoing shall not apply to any of your payment obligations. Any notices under this EULA to Licensor must be personally delivered or sent by certified or registered mail, return receipt requested, or by nationally recognized overnight express courier, to the address specified herein or such other address as Licensor may specify in writing. Such notices will be effective upon receipt, which may be shown by confirmation of delivery. All such notices shall be sent to the attention of the Chief Legal Officer of Life Technologies Corporation (unless otherwise specified by Licensor). You may not assign or otherwise transfer this EULA or any License without Licensor's prior written consent. This EULA shall be binding upon and inure to the benefit of the parties' successors and permitted assigns. You agree, at Licensor's request and reasonable expense, to provide reasonable assistance and cooperation to Licensor and its designees, and to give testimony and execute documents and to take such further acts reasonably requested by the other to acquire, transfer, maintain, perfect, and enforce Licensor's intellectual property rights as described in this EULA. To the extent you fail to do so, you appoint Licensor's or its affiliates' officers as your attorney in fact to execute documents on your (and your personnel's), successors' and assigns' behalf for this limited purpose.

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